TRANSACTIONS

OF THE

AMERICAN INSTITUTE

OF

ELECTRICAL ENGINEERS

JANUARY TO MAY, 1913

VOL. XXXII, PART I

PUBLISHED BY THE
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
33 WEST THIRTY-NINTH STREET
NEW YORK, N. Y., U. S. A.
1913

Copyright, 1913
by the
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Press of McIlroy & Emmet, 22 Thames Street, New York